CONTINUITY SHEET FOR REEL #9

"ELEMENTS OF THE AUTOMOBILE"

M T Part 9

M T The Bray Pictures Corporation
presents
"ELEMENTS OF THE AUTOMOBILE"
by
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assisted by
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M T Produced for
The Education
And Recreation Branch
General Staff
under the supervision
of the
Motor Transport Division
Quartermasters Corps
Unites States Army.

M S Ignition (Continued)

Sub From the foregoing, it is evident that the chief elements in the battery ignition system are:
(1) The battery,or source of low voltage current.

Sc 1 Fade in battery alone.

Sub (2) The spark plugs,which require high voltage current to produce the spark.

Sc 2 Open with battery. Four spark plugs dissolve in.

Sub (3) The ignition coil,which receives low voltage current from the battery.--

Sc 3 Coil and low tension wire dissolve in with current in action.

Sub --and changes it to high voltage current that can jump across a gap.

Sc 4 High tension loop dissolves in. Pointer indicates gap. Pointer opens and closes switch several times.

Sub (4) The breaker,which mechanically breaks the primary circuit and causes the coil to change the low voltage current to high voltage.

c 5 Breaker mechanism dissolves in. Pointer indicates

it. Action of cam and current jumping across gap. This action is repeated several times.

Sub — (5) The distributor--

Sc 6 — Distributor dissolves in. Action of rotar arm (no current)

Sub — --Which receives the high voltage from the coil--

Sc 7 — Lead wire dissolves in from coil to arm. Pointer indicates it.

Sub — --and distributes it to each of the plugs in turn.

Sc 8 — Pointer indicates first contact point, then plug of each. Wires dissolve in, one at a time. Complete action, of breaker and sparks and distributor. Fade out.

Sub — Notice that every time the breaker interrupts the primary circuit, the brush makes connection with one of the plugs.

Sc 9 — Close up of breaker and distributor. Rotar arm makes a contact. Pause. Pointer indicates position, then points to open breaker-arm. Rotar moves to next contact point. Pointer indicates again. Action is repeated several times. Then continuous action. (No current).

Sub — It is evident that the breaker-cam and the brush must revolve at the same speed.

Sc 10 — Close up of breaker and distributor. Action of both. (No current).

Sub — They are usually combined--

Sc 11 — Close up of breaker and distributor. Distributor moves over and combines with breaker.

Sub — --and operated from a vertical shaft.

Sc 12 — Close up of combined distributor and breaker. Dissolve to vertical position. Action of parts. (No current).

Sub — The vertical shaft may be driven by the camshaft, which rotates at the proper speed.

Sc 13 — Four-cylinder engine. External view. Breaker box dissolves in. Dissolve to section of cylinders exposing pistons, camshaft, bevel gears and rotar arm. Pointer indicates rotar arm and camshaft. Action of parts (no Current.)

Sub — As the vertical shaft revolves, it causes the breaker to break the primary current.

Sc 14 — Outside view of breaker box with low tension wires. Portion of box breaks away exposing mechanism. Action with current. Pause. Dissolve to outside view. Action with current.

Sub — The powerful current which is created by the action of the breaker is delivered to the brush.

Sc 15 — Outside view of breaker box with low tension wires, and high tension lead. Action of current. Pause. Dissolve to phantom view. Action of parts with current.

Sub — The revolving brush distributes the powerful current to the spark plugs.

Sc 16 — Wires to plugs dissolve in. Complete action of parts and current. Pause. Dissolve from phantom view to outside view. Flash to four-cylinder engine. Cylinders in section; breaker box in phantom; wires to plugs. Action of parts with current.

Sub — End of Part 9

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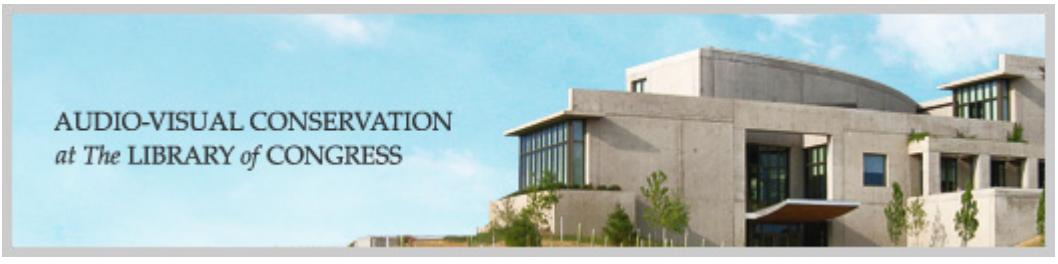

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